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K'O-HSUEH HSUEH-PAO, NO 4, 1958, PP 1-10.

JPRS 17188

FE - CHINA

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Studies in the Survival of *Schistosoma Japonicum*
in Vitro. I. Survival in Blood or Serum Media,
by J. Ito, K. Yasuraoka, Y. Komiya, 24 pp.

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NIH 6-15

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KKH 6-16

Sci - Med
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Hanzo Yokogawa, Tomoo Oshima, Michio Kibata,
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No 4, Dec 1955, pp 388-393.

HHH 4-27

Sci. - Med

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H. Yokogawa, T. Oshima, M. Kihata, 10 pp.

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NIH 4-26

Sci - Med

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AMOUNT OF SUMMER PRECIPITATION IN JAPAN, tr
by E. R. Hope. Sep 62, 18p. 7 refs. DSIS T-65-J.
Order from NRCC NRCC C-4163

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no. 1, p. 29-44.

DESCRIPTORS: *Weather forecasting, Periodic varia-
tions, Air mass analysis, *Precipitation, Japan, *Jet
streams (Meteorology).

(Earth Sciences--Meteorology, TT, v. 9, no. 3)

63-12376

- I. Yanamoto, T.
- II. Title: Forecasting...
- III. DSIS-T-75-J
- IV. NRCC C-4163
- V. Directorate of Scientific
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(Canada)

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DESCRIPTORS: Sunspots, Climatic factors, *Glaciers, Mountains, Europe, *Precipitation, Atmosphere, Korea, Diurnal variations.

An attempt is made to examine the sunspot-climate relationship on the basis of long-term variations of climate in Europe and Asia which have been recorded continuously for more than two centuries. (Author) (Astronomy--Astrophysics, TT, v. 9, no. 6)

- I. Yamamoto, T.
- II. DSIS-61-210
- III. AD-266 474, \$1.60
- IV. Directorate of Scientific Information Services (Canada)

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1958, pp 971-5
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apr 69

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The Effect of Oxygen in the Suspension Polymerization of Tetrafluoroethylene, by
Li-Tung Chau.
JAPANESE, per, Ko Fen Tsu Tung Hsun, Vol 6,
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Hsieh-shan Wang

*Multiple-use subsonic waves, by Hsieh-shan Wang. 5 pp.
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AIR/FTD-HT-23-971-71*

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Studies on Unsaturated Polyesters. Part 4. Polymerization of Polyester Resins with the Aid of Peroxide and Azine - by Dielectric Methods, by K. Goto, K. Yanagihara.

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On the Idea of Negative Entropy, by Motoyoshi Sugita,
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Order from SLA \$3.60

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DESCRIPTORS: *Industrial plants, *Polyvinyl alcohol,
Polymers, Synthetic fibers, Production, Manufacturing
methods, Heat treatment.

(Materials--Plastics, TT, v. 9, no. 6)

1. Title: Gosei
1. Lee, S.

Office of Technical Services

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DESCRIPTORS: *Glycerols, *Ethylenes, *Glycols,
*Polymers, *Heat treatment, Synthetic fibers, Water,
*Polyvinyl alcohol.

(Materials--Plastics, TT, v. 9, no. 6)

I. Lee, S.
II. Hitomi, K.

Office of Technical Services

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FIBER. [1962] [16]p. 4 refs.
Order from SLA \$1.60

62-18938

Trans. of Kohunshi Kagaku (Japan) 1946, v. 5, p. 13-20

DESCRIPTORS: *Polyvinyl alcohol, Fibers (Synthetic),
Drawing (Machine processing), Tensile properties.

(Materials--Textiles, TT, v. 9, no. 6)

62-18938

I. Hiroshi, K.
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16 pp.

Shikhar, 1947 Tokyo
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SLA 58-38

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POLYMERIZATION REACTION. Oct 62, 30p. (figs.
omitted) 15 refs.
Order from SA \$27.00 SA Code-HI

Trans. of Kobunshi Kagaku (Japan) 1948, v. 5,
p. 57-73.

DESCRIPTORS: *Ethylenes, Polymerization, Reaction
kinetics, Pressure, Catalysts, Aluminum, Copper.

(Chemistry--Physical, TT, v. 8, no. 12)

I. Tani, H.
II. Sato, C.
III. Title: Polymerization ...
IV. Title: Kinetics ...
V. SA Code-HI
VI. Seizaburo Aoki (Japan)

Sub Aoki - 1970

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The Polymerization of N-Carboxyphenylalanine Anhydride,
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The Effect of Oxygen upon the Polymerization of
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DESCRIPTORS: *Polymers, Copolymerization, *Vinyl radicals, *Cyano radicals, *Ethyl ethers, Synthesis, Mechanical properties, Vinyl alcohol, Alcohols.

(Chemistry--Organic, TT, v. 8, no. 7)

- I. Tsuruta, M.
- II. Kuroki, N.
- III. Nishio, M.
- IV. Title: Synthetic...

Office of Technical Services

Study of Esters of Phosphoric Acid as Plasticizers
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Nobunshi Kagaku
JAPANESE, par, *Chem High Polymers Japan*, Vol VII,
1950, pp 188-198; C. A. Vol XLVI, 1, 1952.

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Okamura, S. and Urakawa, N.
STUDY OF EMULSION POLYMERIZATION AT ROOM
TEMPERATURE. PT. I. EMULSION POLYMERIZA-
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TURE. [1963] 5p.
Order from ATS \$7.50

ATS-60Q67]

Trans. of Kobunshi Kagaku (Japan) 1950, v. 7,
p. 204-207.

DESCRIPTORS: *Colloids, *Polymerization, *Vinyl
radicals, *Acetates.

(Chemistry--Organic, TT, v. 10, no. 1)

63-17152

- I. Okamura, S.
- II. Urakawa, N.
- III. Title: Emulsion...
- IV. ATS-60Q67]
- V. Associated Technical
Services, Inc., East
Orange, N. J.

TT-64-20354

Office of Technical Services

Effect of Modifiers on Degree of Polymerization
of Vinyl Acetate at Room Temperature,
by Seizo Okamura, Naoichi Hayakawa.
JAPANESE, per, Kobunshi Kagaku,
Vol VII No 8, 1950, pp 292-294.
SLA TT 64-20353

May 67

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Decomposition Velocity of Potassium
Persulfate in Presence of Reducing Agents
at Room Temperature by Norio Urakawa,
Seizo Okamura.
JAPANESE, per, Kobunshi Kagaku,
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SLA TT 64-20355

May 67

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Sci - Chemistry
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IAC INTERNAL USE ONLY

The Relation Between Polymerisation Ability
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(I-II). Part I. Introduction, by T. Chi-
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Compounds. Part 5. On Ion Exchange Compounds Ob-
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1953, pp 117-121.

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Sci - Chem
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Inoue.

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Sci - Chem

Apr 59

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AND ACRYLONITRILE. Pt. 4 of Studies on the
Products of Vinylation under High Pressure using
Acetylene. [1960] 5p.
Order from ATS \$7.00

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Trans. of Kobunshi Kagaku (Japan) 1954, v. 11,
no. 105, pp. 14-17.

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1. Ethers--Polymerization
2. Vinyl cyanide--
Polymerization
3. Copolymerization--Analysis
- I. Aritomi, Y.
- II. Hata, H.
- III. Title: Studies...
- IV. ATS-01N48J
- V. Associated Technical
Service, Inc.,
East Orange, N. J.

ATS-II-3085

Office of Technical Services

(Chemistry--Organic, TT, v. 5, no. 8)

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Nagano, Masamitsu, Takeshima, Kanji, and Otsubo, Ryulchi.
INTRINSIC VISCOSITY AND SPINNING OF HEAT-TREATED PVA. Pt. 3 of Study of PVA Fibers.
[1962] [11]p. 5 refs.
Order from SLA \$1.60

62-20092

Trans. of [Kobunshi Kagaku] (Japan) 1955, v. 12, p. 79-85.

DESCRIPTORS: *Polyvinyl alcohol, *Fibers(Synthetic), Heat treatment, Viscosity, Solutions.

The heat treated PVA solution is in a different state of solution from that obtained from PVA not so treated. It was found that the $[\eta]$ of Huggins equation increases with the progress of the heat-treatment, whereas this value decreases when treated excessively. On the other hand, the k' value decreases with the prog- (Materials--Textiles, TT, v. 9, no. 8)

- I. Nagano, M.
- II. Takeshima, K.
- III. Otsubo, R.
- IV. Title: Study ...

Office of Technical Services

61-20090

Goto, Kenzo and Suzuki, Takenori.
ANALYTICAL STUDIES ON STATES OF CROSS-
LINKING COPOLYMERIZATION OF UNSATURATED
POLYESTER RESINS. [1961] [17]p. 7 refs.
Order from SLA \$1.60

61-20090

- I. Goto, K.
- II. Suzuki, T.

Trans. of Kobunshi Kagaku (Japan) [1955] v. 12,
p. 258-265.

DESCRIPTORS: *Polymers, *Esters, *Resins,
*Styrenes, Copolymerization, Polymerization, Hydrol-
ysis, Quantitative analysis, Molecular structure,
Physical properties, Chemical properties.

The solidified products of copolymerization of several
kinds of synthesized unsaturated polyesters and styrene
are analyzed by saponification. In the solidified prod-
uct obtained from the polyester sample with an equiv-
alent amount of (styrene) monomer, and from those
(Materials--Plastics, TT, v. 7, no. 10) (over)

Office of Technical Services

R-595

Estimation of Crystallinity of Poly (vinyl ~~al~~
alcohol) Fibers by an ~~X~~ X-Ray Spectrograph With a
Geigon Counter, Parts I, II, III, by ~~Зякнхяя~~
Nukushima Sakurada,

JAPANESE, per, Chem High Polymers Japan, Vol XII,
1955, pp 302-306.

*JPRS for Army Rocket and Guided
Missile Agency

18 19 Jul 61

Huang, C. and Tanigaki, T.
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TION OF RESINS AND THEIR GENERAL COMPOSITION
[1964] 10p
Order from ATS \$12.85

ATS-08Q74J

Trans. of Kobunshi Kagaku (Japan) 1955, v. 12,
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(Materials--Plastics, TT, v. 12, no. 1)

TT-64-12755

- I. Huang, C.
- II. Tanigaki, T.
- III. Title: Reactivity ...
- IV. ATS-08Q74J
- V. Associated Technical
Services, Inc.,
East Orange, N. J.

Office of Technical Services

Polymerization of Vinyl Acetate in
Butyraldehyde, by Kaishi ~~Kaishi~~ Noma, et al, 12 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XII,
No 126, 1955, pp 453-459.

SLA 60-18461

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X-ray Measurement of the Degree of Crystallinity
of Poly(vinyl Alcohol) Films Using A Counter,
by I. Sakurada, Y. Nukishima.
JAPANESE, per, Kobunshi Kagaku, Vol 12, 1955,
pp 483-486.
ATS-JS-184

Sci-Meth & Equip
Mar 70

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Swelling of Poly(vinyl Alcohol). Part I. Relation
Between Swelling Index and Crystallinity of Poly-
(vinyl Alcohol) Films Having Different Degrees
of Polymerization, by I. Sakurada.
JAPANESE, per, Kobunshi Kagaku, Vol 12, No 128,
1955, pp 506-510.
ATS-JS-185

Sci-Phys
Mar 70

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Acrylic Synthetic Fibers. XIV, Potassium
Persulfate-Sodium Bisulfite System
Redox Polymerization of Acrylonitrile,
by Masumichi Katayama, Toshio Ogoishi,
10 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XIII,
No 129, 1956, pp 6-10.

SLA 60-18458

Sci
Vol IV, No 11
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199, 296

Acrylic Synthetic Fibers XV. Influence of
Additives Upon the Potassium Persulfate-
Sodium Bisulfite Redox Polymerization
Acrylonitrile, by Masamichi Katayama,
Zenichi Saito, 11 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XIII,
No 129, 1956, pp 11-17.

SLA 60-185457

Sci
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Jun 62

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Inoue, R., Ouchi, S., and Yasuhira, S.
THERMAL DEGRADATION OF POLYISOBUTENE.
Pt. 3 of Studies of Radical Chain Depolymerization.
[1962] 8p.
Order from ATS \$11.00 ATS-58P60J

Trans. of Kobunshi Kagaku (Japan) 1956, v. 13, no. 129,
p. 31-37.

DESCRIPTORS: *Butenes, *Polymers, Deterioration,
Chemical analysis.

(Chemistry--Analytical, TT, v. 8, no. 4)

62-17704

- I. Inoue, R.
- II. Ouchi, S.
- III. Yasuhira, S.
- IV. Title: Studies...
- V. ATS-58P60J
- VI. Associated Technical
Services, Inc., East
Orange, N. J.

ATS-JJ-3629

Office of Technical Services

62-14970

Negishi, Michiharu, Sekiguchi, Ichiro and others.
RESEARCHES ON POLYVINYL CYANOETHYL
ETHER. II. A STUDY ON THE VISCOSITY OF
POLYVINYL CYANOETHYL ETHER IN DILUTE
AQUEOUS SOLUTION. [1962] 14p. 11 refs.
Order from SLA \$1.60 62-14970

Trans. of Kobunshi Kagaku (Japan) 1956, v. 13,
no. 130, p. 69-76.

DESCRIPTORS: *Polymers, Copolymerization,
*Vinyl radicals, *Cyano radicals, *Ethyl ethers,
Viscosity, Water, Solutions, Vinyl alcohol, Alcohols.

Viscosity measurement was conducted on dilute
aqueous solutions of PVCE with N content of 0 to 8%,
obtained by the water solution-phase cyanoethylation
method (NaCN catalyst) using fractionated PVA as the
raw material. Across the entire N-content range, as
(Chemistry--Organic, TT, v. 8, no. 6) (over)

I. Negishi, M.
II. Sekiguchi, I.
III. Title: Study...

Office of Technical Services

The Conductance of Ions in the Presence of a
Polymer, by Tsunetaka MATSUMOTO.
JAPANESE, per, Kobunshi Kagaku, Vol 13, 1956,
pp 86-92.
*AEC ORNL Tr-1759

Sci - Chemistry
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Melt Viscosity of Nylon 6, by E. Mukoyama, A.
Takegawa, 11 pp.

JAPANESE, per, Kobunshi Kagaku, Vol XIII, No 136,
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Nov 60

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Kawamatsu, Syunji and Harada, Minoru.
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AMINE ON THE OXIDATION OF POLYETHYLENE.
Rept. no. 2 of Studies on the Oxidation of High Poly-
mers. [1961] [12]p. 9 refs.
Order from SLA \$1.60

61-16572

Trans. of Kobunshi Kagaku (Japan) 1956, v. 13,
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DESCRIPTORS: *Ethylenes, *Polymers, Oxidation,
*Oxidation inhibitors, *Amines, Naphthyl radicals,
Phenyl radicals.

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oxidation inhibitor for polyethylene, was measured
from the rate of oxygen absorption and induction period
using the tungsten spring balance. Under an oxygen
pressure of 207 mm Hg and at 116°C the induction
period increased in more or less logarithmic propor-
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